WHAT IS CLAIMED IS:

2	1.	A system for data transformation, comprising:
3		one or more read spokes, each read spoke configured to connect to one or more
4		data sources, wherein each data source has one or more data structures
5		referred to collectively as source structures;
6		one or more modeless write spokes, each modeless write spoke configured to
7		connect to one or more data targets, wherein each data target has one or
8		more data structures referred to collectively as target structures; and
9		a transformation engine operatively coupled to the one or more read spokes for
10		retrieving data from the one or more data sources, and coupled to the one
11		or more modeless write spokes for storing data in the one or more data
12		targets, comprising:
13		a data transformation map that comprises one or more mappings that
14		relates one or more source structures to one or more target
15		structures;
16		an event list, comprising one or more event actions, each with a
17		corresponding triggering event,
18		wherein the transformation engine is configured to
19		iterate through the data sources and detect occurrence of triggering
20		events,
21		in response to the detection of triggering events, execute the
22		respective one or more event actions from the event action
23		list.
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25	2.	The system of claim 1, wherein the transformation engine further comprises a
26	query	language preprocessor operable to review the data transformation map and evaluate

query language preprocessor operable to review the data transformation map and evaluate embedded expressions in the one or more mappings.

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- 3. The system of claim 1, wherein at least one of the event actions, referred to as a transformation event action, comprises:
 - retrieving at least one source structure from the data source,

1	transforming said at least one source structure, referred to as transformed source	
2	data, and	
3	storing said transformed source data in one or more target structures; and	
4	wherein said transformation engine is operable, in response to a transformation	
5	event action, transform data specified by said transformation event action	
6	in a manner described in the data transformation map.	
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8	4. The system of claim 1, further comprising a user interface configured to allow a	
9	user to define the one or more data sources, and to define data structures in each of the	
10	one or more data sources.	
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12	5. The system of claim 1, further comprising a user interface configured to allow a	
13	user to define the one or more data targets, and to define data structures in each of the one	
14	or more data targets.	
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16	6. The system of claim 1, further comprising a user interface configured to allow a	
17	user to define the relationship between one or more data sources and one or more data	
18	targets.	
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20	7. The system of claim 6, further comprising the user interface allowing the user to	
21	relate source structures to target data structures.	
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23	8. The system of claim 7, wherein the user interface is further comprises a display	
24	configured to graphically depict the relation between the source structures and the target	
25	structures specified in the transformation map.	
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27	9. The system of claim 6, wherein the user interface is further configured to define	
28	the relationship between one or more data sources and one or more data targets as a	

logical expression.

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- 1 10. The system of claim 6, wherein the user interface is further configured to define the relationship between one or more data sources and one or more data targets as a numeric expression.
- The system of claim 1, wherein the transformation engine further comprises a display configured to show the contents of the data source and the contents of data structures in the data target.
- The system of claim 1, wherein the associated triggering event is a generic source event.
- 13. The system of claim 1, wherein the associated triggering event is a generic target event.
- 15 14. The system of claim 1, wherein the associated triggering event is a generic transformation event.
- 15. The system of claim 1, wherein the associated triggering event is a specific source record event.
- 16. The system of claim 1, wherein the transformation engine is further configured to filter the data retrieved from the data source, the data passing the filter referred to as filtered source data, and is further configured to iterate through only the filtered source data.
- The system of claim 16, wherein the transformation engine is further configured to filter the data using predetermined sampling parameters governing a range or sample.
- 18. The system of claim 16, wherein the transformation engine is further configured to filter the data using a predetermined logical extraction criteria.

- 19. The system of claim 1, wherein the read spokes may connect to the one or more
- data sources by utilizing a raw sequential mode wherein an intuitive visual parser
- 3 reconstructs record layouts.
- 5 20. The system of claim 1, wherein the read spokes may connect to the one or more
- data sources by utilizing a compatible physical file format allowing the transformation
- engine to physically read from the one or more data sources using the native internal
- 8 storage format.